

CLAIMS

What is claimed is:

1. A method of improving speech recognition comprising:
taking a realization and a first representation for said realization;
performing a speech recognition on said realization thereby producing a second representation for said realization;
aligning said first representation and said second representation;
selecting single words from said first representation and corresponding aligned single words from said second representation and pairing said aligned single words, wherein said first and said second representations are different; and
updating a word database using said selected paired words together with said corresponding aligned realization.
2. The method according to claim 1, wherein said selecting step uses speech recognition information derived from said speech recognition.
3. The method according to claim 2, wherein said aligning step reveals time information corresponding to the alignment between said realization and said first representation.
4. The method according to claim 2, said updating step further comprising:
comparing the recognition quality of said speech recognition of said realization with the recognition quality of a corresponding single word entry existing in said word database.
5. The method according to claim 4, wherein said first and said second representations are comprised of segments, said comparing step further comprising:

3 tagging said segments of said first and said second representations where both
4 said first and said second representations consist of a single word.

1 6. A method of improving speech recognition comprising:
2 taking a realization and a first representation for said realization;
3 performing a speech recognition on said realization thereby producing a second
4 representation for said realization;
5 aligning said first representation and said second representation;
6 selecting single words from said first representation and corresponding aligned
7 single words from said second representation and pairing said aligned single words,
8 wherein said first and said second representations are identical; and
9 updating a pronunciation database using said selected paired words together
10 with said corresponding aligned realization.

1 7. The method according to claim 6, wherein said selecting step uses speech
2 recognition information derived from said speech recognition.

3 8. The method according to claim 7, wherein said aligning step reveals time
4 information corresponding to the alignment between said realization and said first
5 representation.

1 9. The method according to claim 7, said updating step further comprising:
2 comparing the recognition quality of said speech recognition of said realization
3 with the recognition quality of a corresponding single word entry existing in said
4 pronunciation database.

1 10. The method according to claim 9, wherein said first and said second
2 representations are comprised of segments, said comparing step further comprising:

3 tagging said segments of said first and said second representations where both
4 said first and said second representations consist of a single word.

1 11. A system for improving speech recognition of a speech recognizer, said system
2 comprising:

3 an aligner configured to align a first representation and a second representation
4 produced by said speech recognizer;

5 a classifier configured to compare said aligned first representation with said
6 aligned second representation;

7 a selector configured to select corresponding single word pairs from said aligned
8 first representation and said aligned second representation.

1 12. The system according to claim 11, wherein said first representation and said
2 second representation are different.

1 13. The system according to claim 11, wherein said first representation and said
2 second representation are identical.

1 14. The system according to claim 11, further comprising means for updating a word
2 database or a pronunciation database using single word pairs selected by said selector.

1 15. The system according to claim 11, said aligner further comprising:
2 means for generating time information corresponding to time alignment between
3 said first representation and said second representation.

1 16. The system according to claim 15, wherein said first and said second
2 representations comprise segments, said classifier further comprising:

means for tagging said segments of said first representation and said second representation where said first representation and said second representation consist of a single word.

17. A machine-readable storage, having stored thereon a computer program having a plurality of code sections executable by a machine for causing the machine to perform the steps of:

- taking a realization and a first representation for said realization;
- performing a speech recognition on said realization thereby producing a second representation for said realization;
- aligning said first representation and said second representation;
- selecting single words from said first representation and corresponding aligned single words from said second representation and pairing said aligned single words, wherein said first and said second representations are different; and
- updating a word database using said selected paired words together with said corresponding aligned realization.

18. The machine-readable storage according to claim 17, wherein said selecting step uses speech recognition information derived from said speech recognition.

19. The machine-readable storage according to claim 18, wherein said aligning step reveals time information corresponding to the alignment between said realization and said first representation.

20. The machine-readable storage according to claim 18, said updating step further comprising:

- comparing the recognition quality of said speech recognition of said realization with the recognition quality of a corresponding single word entry existing in said word database.

1 21. The machine-readable storage according to claim 20, wherein said first and said
2 second representations are comprised of segments, said comparing step further
3 comprising:

4 tagging said segments of said first and said second representations where both
5 said first and said second representations consist of a single word.

1 22. A machine-readable storage, having stored thereon a computer program having
2 a plurality of code sections executable by a machine for causing the machine to
3 perform the steps of:

4 taking a realization and a first representation for said realization;

5 performing a speech recognition on said realization thereby producing a second
6 representation for said realization;

7 aligning said first representation and said second representation;

8 selecting single words from said first representation and corresponding aligned
9 single words from said second representation and pairing said aligned single words,
10 wherein said first and said second representations are identical; and

11 updating a pronunciation database using said selected paired words together
12 with said corresponding aligned realization.

1 23. The machine-readable storage according to claim 22, wherein said selecting
2 step uses speech recognition information derived from said speech recognition.

1 24. The machine-readable storage according to claim 23, wherein said aligning step
2 reveals time information corresponding to the alignment between said realization and
3 said first representation.

1 25. The machine-readable storage according to claim 23, said updating step further
2 comprising:

3 comparing the recognition quality of said speech recognition of said realization
4 with the recognition quality of a corresponding single word entry existing in said
5 pronunciation database.

1 26. The machine-readable storage according to claim 25, wherein said first and said
2 second representations are comprised of segments, said comparing step further
3 comprising:

4 tagging said segments of said first and said second representations where both
5 said first and said second representations consist of a single word.

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